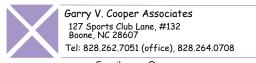
Using GIS to Move Salisbury from Good to Great

Strategic Plan Update

Salisbury GIS Express

December 2006

Technical Assistance Provided By:



E-mail: garry@cooperwww.com

Using GIS to Move Salisbury from Good to Great ... Strategic Plan Update



Executive Summary

Purpose

The City of Salisbury conducted a workshop on December 15, 2006 to update its GIS strategic plan. The scope of work included validation of the vision components, review (and celebration) of accomplishments, and an update of the project listings.

Participants

Workshop participants consisted of city and county staff. A total of 24 people participated in the workshop.

Workshop Framework

Participants in 2004 identified 12 projects to accomplish over a 5-year time period. The 2006 workshop allowed participants to reflect about what in 2004 they said they would accomplish, what they actually did accomplish, how conditions have changed, and the need to adjust both projects and the plan.

Process

Participants used a 7-step process: 1-validation of vision components; 2-review of project listing; 3-identification of what has changed; 4-determination of the vital signs that the initial plan is still healthy; 5-deciding where the city should place special emphasis over the next two years; 6-action planning; and 7-time for reflection.

Results

Participants accomplished several action planning tasks. First, they reviewed the status of the 12 initial GIS projects in the 2004 plan (the city has completed 4 of the 12 initial GIS projects, 7 are in-progress of completion, and the city deferred one project). Participants also reviewed/updated the GIS Data Layer Inventory listing that is the heart of the city-wide GIS data base (they identified which of the existing layers require updating, prioritized layers that have a new status on the listing, and both identified and prioritized additional new layers that are not on the listing). Lastly, participants identified 41 new projects to add to the GIS plan (grouped by vision component, prioritized, and linked to council-level goals and outcomes).

The GIS plan for Salisbury is a success story, and there are several lessons to be learned from it. These lessons involve the importance of crossing departmental/organizational lines, becoming familiar with technical terminology and potential GIS applications, understanding that GIS project development in Salisbury is becoming a fast-moving train, recognizing the need to have both the right mix of projects and projects that bring all GIS users equitably on board the GIS train, and understanding what powers the GIS train.

In short, the GIS flower (planted in 2004) has started to bloom in Salisbury.

The City of Salisbury conducted a workshop on December 15, 2006 to update its 2004-2010 GIS strategic plan. The scope of work included validation of the vision components, review (and celebration) of accomplishments, and an update of the project listings. This report documents both the process and the results. The following report sections identify the participants and describe the workshop framework, specific action planning steps (to include accomplishments and project updates), the meaning and significance of success, and future directions.

The Participants

Workshop participants consisted of city and county staff. A total of 24 people participated in the workshops (Figure 1).

Workshop Framework

Participants in 2004 identified 12 projects to accomplish over a 5-year time period. The 2006 workshop allowed participants to reflect about what in 2004 they said they would accomplish, what they actually did accomplish, how conditions have changed, and the need to adjust both projects and the plan. In short, this workshop was an opportunity to track – or follow up on – strategic GIS directions for the city, share information across departmental lines, and redirect activities in a coordinated, proactive manner.

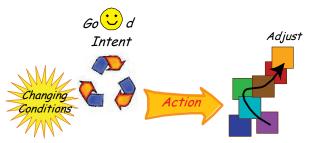


Figure 1. Workshop Participants

Name	Representing
rvanie	nepresenting
· Kelly Baker	Administration
· Marshall Moore	Fire
• Bob Parnell	Fire
· Doug Stevens	Fire
· Kathryn Clifton	Land Management and
	Development
• Janet Gapen	Land Management and
	Development
 Dan Mikkelson 	Land Management and
	Development
 Craig Powers 	Land Management and
	Development
 Wendy Spry 	Land Management and
	Development
• Benita Staples	Land Management and
	Development
· Lynn Raker	Land Management and
	Development
 Jerry Hogan 	Management Services
 Vickie Eddleman 	Public Services
• Mark Martin	Public Services
 Stephen Brown 	Parks and Recreation
• Elaney Hasslemann	Parks and Recreation
• Gail Elder White	Parks and Recreation
• Diane Gonzales	Police
 Adrian Rollans 	Rowan County
 Angela Hedrick 	Salisbury CDC
 Trey Cleaton 	Salisbury-Rowan Utilities
· Jeff Jones	Salisbury-Rowan Utilities
 Patrick Kennerly 	Salisbury-Rowan Utilities
· Mike West	Salisbury-Rowan Utilities

Specific Action Planning Steps and Accomplishments

Below are the seven action planning steps that participants used to update the GIS strategic plan. Step 2 includes summary information about project accomplishments.

Step 1 - Validate vision components

Planning usually begins with a vision statement ... where one wants to be at some point in the future. Plan formulation and implementation then determine how one can realize the vision. The 2004 GIS strategic plan identifies four vision components that need to happen in the GIS arena: 1-collect, maintain, and display data; 2-utilize data analysis/modeling to make better decisions; 3-provide necessary resources; and 4-implement GIS-based work order system. Participants confirmed that the 2004 vision continues to be a valid statement of where they want to be in 2010.

Step 2 - Review project listing

Realizing the vision *initially* involved 12 specific projects. Workshop participants reviewed each of these projects and addressed several questions: is the project on track ... how has the situation changed ... what are the blocks/obstacles to moving forward ... what can be done to remove the blocks/obstacles ... and how should the city adjust/re-maneuver? Below are summary comments relating to review of the 12 projects included in the 2004 plan.

1. Complete infrastructure mapping – ahead of schedule; sewer mapping is done; water mapping is nearly done; NPDES state mandate to accomplish storm water mapping is without state funding; the city must work on the high priority projects

- first, and departments must weigh the different priorities to determine mapping sequence.
- 2. Data layer maintenance/display the city has moved to an enterprise solution, and the catalogue portion of the project has been delayed; migration of data to SDE has created multiple data editors, change in software will require educating users as they adjust to the change; the end result will be greater efficiencies and will require less work in the future because updating will be from one central server.
- 3. Analyze costs/benefits for potential annexations completed project (however, future annexations will continue to create new project requirements).



4. Identify economic development areas - completed project (however, will need to make changes to urban progress zones).



- 5. Utilize county-wide data in police dispatch (i.e., integration of database) city and county continue to seek agreement on using common solutions and adding additional cities as participants; the city-county fringe areas are problematic locations regarding data integration and will require standardization of data structure; integration and standardization of data entry (using common tools) will require additional work.
- 6. Utilize real-time tracking of police units project *deferred* because of budget considerations.
- 7. Modeling, scenario analysis, and incident review and evaluation utilities applications are on-track; new EPA rules require

- enhanced modeling; purchase of a larger site license, making data available, and funding are all necessary to keep this project moving.
- 8. Allow for efficient maintenance of utility systems project is on-track; the city will soon implement pipe survey software that will integrate with GIS and additionally provide mobile capability, fiscal realities limit pace of implementation; the city has already realized cost savings, and this is a good example of how GIS can improve efficiencies and also save money.
- 9. Implement existing work order procedures with GIS-based (Customer Resource Management [CRM]) system - although this project is on-track, the method of accomplishment is changing from a GIS-driven to a GIS-integrated/compatible system; staff is awaiting council approval, and departments need to continue unified support and demonstrate the value of this project.
- 10. Provide for mobile GIS access work has begun, but progress is slow because of difficulty in accessing staff resource time; utilities has started using mobile internet connections for meter reading; the next generation ArcGIS server will facilitate this project, but this will require additional funding.
- 11. Add GIS staff, and budget more money completed project (addition of one staff position); however, project funding will continue to be an issue, and an additional position will likely be necessary to accomplish the growing list of new projects.



12. Make data access easy (i.e., user-friendly), and make more information available on-line – completed project; a concern is

that with increased data availability comes the need for increased security; in addition, the demand for *new data layers* will continue to increase.



Step 3 - What else has changed?

Both internal and external changes can impact project accomplishment. Although the city has little or no control over most external changes, it usually has significant control over internal changes. However, many internal changes involve resource competition. Figure 2 is a listing of changing conditions that impact GIS needs and service delivery.

Figure 2. Changing Conditions

- City growth (e.g., demographics ... annexations ... service requirements)
- Greater appreciation of GIS as a management and customer service tool (among city management and staff personnel)
- Council-level goals/outcomes are dynamic
- Increased focus on customer service base (both internal-directed and external-directed requirements)
- Legal requirement for handling/storing data
- Staff changes (additions, retirements, promotions, etc.)
- Technology
- Traffic patterns/road networks

Step 4 - What are the vital signs that the initial plan is still healthy?

It's important to monitor the vital signs of any plan. Figure 3 is a listing of the vital signs showing that the plan initially developed in 2004 is still healthy.

Figure 3. Plan Vital Signs

- City management support
- Greater/increased awareness about GIS
- More data and more people using it
- Movement to enterprise solution concept
- Positive comments from private sector users
- Continuing to make progress ... substantiates relevance

Step 5 - Where should the city place special emphasis over the next two years?

One can identify for any plan areas of emphasis that *must* be done if the plan is to remain healthy. Figure 4 lists areas of emphasis that are critical to keeping the GIS plan on track.

Figure 4. Areas of Emphasis

- Communication-coordination-training involving departments/users is critical
- Continue data development/collection
- Continue to make data accessible and easy to use
- Continue using data for enhanced planning and decision-making
- More entry-level training/information access
- Standardize business practices (to facilitate integration with CRM)

Step 6 - Action Planning

The action planning step of the workshop consisted of three components. First, participants reviewed/updated the *GIS Data Layer Inventory* listing (projects 2 and 12 of the initial 12 projects in the plan have direct linkages to this inventory listing); second, participants asked staff to update the schedule and task sequencing for the eight projects in the initial plan that are still

in-progress; and third, participants identified new projects, asked that staff coordinate scheduling and action planning task development with the appropriate city departments, and add these projects to the plan.

The GIS staff maintains the GIS Data Layer Inventory listing. Participants identified which of the existing layers require updating (Figure 5); they prioritized layers on the listing that have a new status (Figure 6); and they both identified and prioritized additional new layers that are not on the listing (Figure 7). In regard to prioritization, an A priority layer is higher than a B priority layer.

Figure 5. Existing Layers Requiring Updating

Description	Classification
Storm drainage	Infrastructure
• Elevation point data	LIDAR
· Greenway trail	Open Space
· Parks	Open Space
• Planning neighborhoods	Planning
 Street centerline, address ranges, and 	Transportation
thoroughfare designation	

There was insufficient workshop time for the participants to update projects in the initial plan that are still in-progress. Therefore, the GIS staff agreed to accomplish this task, and the updated project listing is at Appendix A.

Participants additionally identified 41 *new projects* to add to the GIS plan, and they grouped the projects by vision component.

Figure 6. Prioritization of New Layers Already on the Listing

Description	Classification	Priority
 Residential subdivisions 	Boundary	Α
 Abandoned buildings 	Fire	Α
 Impervious surfaces 	Infrastructure	Α
Bicycle routes	Transportation	Α
• Bus routes	Transportation	Α
• Bus shelters/ stops	Transportation	Α
 Pedestrian access 	Transportation	Α
• Sidewalks	Transportation	Α
 Traffic volumes 	Transportation	В
• Grease traps	Utilities	В
· Meters	Utilities	В
 Significant industrial users 	Utilities	В

Because of the large number of new projects, participants prioritized the projects as either an **A** project (higher priority) or a **B** project (lower priority). Figure 8 is a listing of both the **A**-priority and **B**-priority projects (grouped by vision component), and Appendix B contains detailed information - by project and also grouped by vision component - about scheduling and task development for all of the **A**-priority projects.

All of the work order-related projects (CRM) listed in both Figure 8 and Appendix B have interface, work flow, mapping, and reporting requirements (most of which are incident-driven). In addition, no tasks have been identified for these work order-related projects (in Appendix B) because determination of tasks is a function of the software, and the city has not yet purchased the software. Lastly, the projects listed in Appendix B (and also A-priority projects in Figure 8) are in priority order within each vision component; for example, the first project in each vision component is the highest priority project within the component. Figure 7. Prioritized Listing of New Layers Not on the Listing

Description	Classification	Priority
Storm drain lines and improve	Infrastructure	Α
storm drain layer		
 Greenway point markings 	Open Space	Α
 Buildings with alarm systems 	Places	Α
 Opticom intersections 	Transportation	Α
 Traffic speed data (speed limits 	Transportation	Α
and actual travel speeds)		
 Backflow prevention devices/RPZ 	Utilities	Α
 Cable/wireless coverage areas 	Utilities	Α
 Fire department connections 	Utilities	Α
 Private underground power-gas- 	Utilities	Α
cable-phone		
 Social and demographic data by 	Census	В
block group		
 Buildings with sprinkler systems 	Fire	В
 Knox box locations 	Fire	В
 Drainage catchment areas 	Hydro	В
 Railroad crossing photos 	Infrastructure	В
(markings-signs-signals)		
 Traffic signals 	Infrastructure	В
 Geo-reference usage of park 	Open Space	В
amenities (structure)		
 Park amenities (physical location) 	Open Space	В
 Street trees 	Open Space	В
 Trees 18" and larger 	Open Space	В
 Foster homes 	Places	В
 Photographic inventory of 	Places	В
historic homes		
 Residential group homes 	Places	В
 Confined space locations 	Risk Management	В
 Hazardous materials locations 	Risk Management	В

Figure 8. New Projects

A-priority	B-priority
Collect, Maintain, and Display Data	Collect, Maintain, and Display Data
1. Implement Addresser Program	18. Collect and monitor data on at-risk (i.e., deteriorated) housing prioritize need for
2. Map all remaining fire hydrants county-wide	mitigation
3. Develop a storm-water system map	19. Develop county-wide stream centerline layer
4. Purchase oblique aerial photography to integrate into current	20. Develop impervious surface layer
applications	21. Model land use change
	22. Participate in Project Greenmap to identify green areas that will benefit planning,
Utilize Data Analysis/Modeling to Make Better Decisions	consumers, constituents, and tourists
5. Participate in census address review	23. Track vehicle accidents
6. Standardize addresses county-wide with input from city/county /911; create routing layer county-wide	24. Use 3-D visualization during presentation
7. Incident mapping (i.e., crime mapping)	Utilize Data Analysis/Modeling to Make Better Decisions
8. Develop a county-wide water and sewer service plan	25. Compare night incident vehicle accidents with street light map
9. Use network analysis for improved routing for public services	26. Determine need for bike trails/walking trails based on locations with high auto versus pedestrian incidents
Provide Necessary Resources	27. Develop park usage/new locations based on population
10. Wireless access city-wide	28. Identify homes with lead pipes (water quality grant available)
11. Support fire accreditation and standardization of coverage	29. Identify non-driving households for evacuation planning
12. Develop on-line application to highlight economic development	30. Track new construction (where zoning permits have been issued)
areas and urban progress zone	31. Use CityGREEN software to monitor change in tree canopy are we meeting goals for tree canopy?
Implement GIS-based Work Order System	32. Utilize water distribution system data to analyze water quality throughout the system
13. Automatic notification to perform map updates within	Provide Necessary Resources
workflow	33. City-wide security cameras
14. Mobile access required	34. Develop on-line application for park amenities and alternate transportation
15. Produce end-of-year reports for performance measurement	35. Facilities management graphic representation of buildings
16. Pull up history of activity for address/parcel17. Start work order with either map or database - both equal	36. Fiber to the home
	Implement GIS-based Work Order System
	37. Generate reports on system performance based on work orders
	38. Map drainage problems (based on citizen complaints)
	39. Respond to availability of water and sewer connections
	40. Transform code enforcement's current operation to GIS-based

Step 7 - Reflection

Participants reflected on both the process and their accomplishments at the end of the workshop. The entire process was bottom-up and participant-driven. The easiest parts of the workshop were Steps 1-5, and the hardest part was Step 6. There were also feelings of pride when looking at the accomplishments. Additionally, participants recognized - and valued - their commitment to work together toward realizing the guiding values (identified during the initial plan development). In addition, the time spent working together both helped to build teamwork and better position the city as it grows and changes over the next several years.

Meaning and Significance of Success

The GIS plan for Salisbury is a success story, and there are several lessons to be learned from it.

First, GIS crosses all departmental/organizational lines and intersects functionally in a variety of ways between departments. GIS applications often involve complex procedures, and continued inter-departmental dialogue regarding applications is essential.

Second, both GIS applications and terminology are generally technical. Because most decision-makers are often not familiar with either GIS terminology or application details, it is critical that staff keep decision-makers informed and advertise success stories in ways that all can understand.

Third, GIS project development in Salisbury has become a fast-moving train. What started out as 12 projects is now 41 and will

continue to exponentially grow over the next several years. This has significant policy and financial implications that, if recognized and methodically addressed now, will become less overwhelming in the future

Fourth, in addition to cost considerations, it is important to have both the right mix of projects and projects that bring all GIS users equitably on board the GIS train. The various GIS projects range widely in terms of cost. The greater the number of projects and the greater the departmental linkages, the greater the potential efficiencies, and it is more likely that the city can realize economies of scale.

Fifth, GIS is a tool (versus an end). Although applications are boundless, the fuel that should power the GIS train must be efficiencies, cost savings, and improved customer service.

Future Directions

Success stories deserve to be shared with others. The sharing can include the community level (i.e., with the citizens of Salisbury) and also the professional level (i.e., with management, between departments, and among peers). The Chinese annually celebrate a specific animal (e.g., Year of the Dog). One can do the same with GIS ... celebrating the Year of GIS. With prudent project selection and adequate funding the city should, in 1-2 years, be able to focus on how GIS governmental services are helping both citizens and businesses in Salisbury ... and how the Salisbury team connects with key players even outside the city. In addition, management and staff can advertise their success story among peers at conferences.

In short, the GIS flower (planted in 2004) has started to bloom in Salisbury. The spreading roots and future growth will continue

to involve commitment of management, staff, and elected officials ... all working together to help move Salisbury from *good to great*.

Appendices

- A Updated Listing of Initial Projects
- B FY 2004-05 Council-level Outcomes and Goals
- C New Projects Added to the Initial Listing
- D FY 2006-07 Council-level Outcomes and Goals



Vision			Sa					
Component,	Launch						Victory	Priority and
Project	Activity	FY 05-06	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to
Description,								Council-level
and Cost								Outcomes
Estimate								

Collect, maintain, and display data

1 - IN PROGRESS Complete infrastructure mapping \$375,000	Meet with departments to identify attributes to be collected	 Prioritize data collection needs Purchase needed materials Hire additional data collectors Begin data collection (20 percent of identified layers) 	• Data collection completed for 40 percent of layers	Data collection completed for 60 percent of layers	Data collection completed for 80 percent of layers	Data collection completed for 100 percent of layers	Each department has usable data and is ready to enter maintenance cycle	High 1, 2, 3, 5, 6, 9, 10, 11, 12, 13, and 14
Data layer maintenance and display (create data catalog, continue to improve existing data, implement custom tools for data maintenance, and develop searchable data	inventory and catalog data	needed tools for maintenance • Develop data	tools for data maintenance • Complete	management link to GIS (LaserFiche) Complete a searchable data and image			have access to	High 1, 2, 3, 4, 5, 6, 7, 9, 13, and 14

Vision			Sa					
Component,	Launch						Victory	Priority and
Project	Activity	FY 05-06	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to
Description,								Council-level
and Cost								Outcomes
Estimate								

Utilize data analysis/modeling to make better decisions

3 - COMPLETED	Joint meeting	· Identify target		Development of	Medium
Analyze	involving LMD,	annexation		cost/benefit	
costs/benefits	SRU, and	areas		procedural guide	2
for potential	Management	 Identify 		and increased	
annexations	Services to	applicable data		tax base for city	
	develop analysis	layers		·	
In-house	methods	 Apply analysis 			
		methods using			
		GIS software			
4 - COMPLETED	Joint meeting	• Develop criteria		Identified areas	Medium
Identify economic	involving LMD,	for modeling		and catalogued	
development	SRU, and EDC to	specific sites		information	2 and 14
areas	exchange	 Obtain 		available to	
	information	additional data		decision-makers	
In-house		(if needed)			
		 Use GIS to 			
		characterize			
		sites			
		 Document 			
		information			
		about sites			
5 - IN PROGRESS	Joint meeting		·LMD	Police use county	Medium
Utilize county-	involving police		coordinates	data to	
wide data in police	and LMD to		data	determine	1
dispatch	identify data		requirements	location for	
	requirements and		with county	dispatch	
In-house	procedures		• LMD provides		
			access to data		
			and informs		
			police of new		
			access		
			procedures		

Vision			So					
Component,	Launch						Victory	Priority and
Project	Activity	FY 05-06	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to
Description,								Council-level
and Cost								Outcomes
Estimate								

Utilize data analysis/modeling to make better decisions

6 - IN PROGRESS Utilize real-time GPS tracking of police units \$150,000	Joint meeting involving police, IT, and LMD to explore possibilities		 Investigate GPS technology options Identify funding and budget sources 	 Purchase and install hardware and software (phased) Training and implementation 25 percent complete 	 Training and implementation 75 percent complete 	• Training and implementation 100 percent complete	Improved tracking, deployment, and response times	Medium 1
7 - IN PROGRESS Modeling, scenario analysis, and incident review and evaluation \$150,000	Joint meeting involving LMD and SRU to develop a sewer and water project	· Collect sewer data	 Purchase and implement sewer modeling software 	• Collect water data	Implement hydraulic model utilizing complete data	 Perform maintenance and upgrades, as needed 	Prepare summary report evaluating model functionality and results	Medium 13
8 - IN PROGRESS Allow for more efficient maintenance of utility systems	Stakeholder meeting to assess on-going activities	 Collect sewer data Prepare and distribute system maps 	 Collect water data Prepare and distribute system maps 	 Allow/support real-time data access (especially mobile data) 			SRU, LMD, and public services celebrate accomplishment	Medium 13
In-house								

Vision			Sc					
Component,	Launch						Victory	Priority and
Project	Activity	FY 05-06	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to
Description,							-	Council-level
and Cost								Outcomes
Estimate								

Implement GIS-based work order system

9 - IN PROGRESS	Consultant	· Conduct	• Purchase	• Test and	All departments	High
Integrate	prepares work	departmental	system	implement	are satisfied	
existing	order framework	and cross-		system	with new system	9
procedures with		functional			·	
future system		planning/needs				
		assessment				
\$1,500,000		 Evaluate results 				
		 Prepare RFP 				

Provide necessary resources

10 - IN PROGRESS Provide for mobile GIS access	Form stakeholder group to evaluate results		 Seek funding (to include grants) 	 Seek funding (to include grants) 	 Hire consultant Evaluate/select implementation method 	• Purchase and roll out system	Successful test of wireless broadcast	High 1, 9, and 13
\$150,000 11 - ON TARGET	City council	· Hire GIS			· Hire GIS		Send thank you	High
Add GIS staff, and budget more	adopts GIS	technician			programmer		note to City	
money	action plan						Manager and Council	1, 2, 3, 4, 6, 7, 9, 10, 11, 13, and 14
12 - ON TARGET Make data access easy (i.e., user- friendly), and make more information available on-line	Discuss on-line applications and ease-of-use at GIS user group meeting	Develop use policies Prioritize project listing		 Develop on-line applications Provide for download of data layers 	Roll out/make available at public kiosk		Survey users regarding applications and ease of use	High 12, 13, and 14

City of Salisbury

City Council Outcomes and Goals, FY 2004-05

(Revised and Adopted February 20, 2004)

Outcome 1: Improve neighborhoods and safety for all areas of the City

- 1. Prepare a second five-year Police Department Strategic Plan Police
- 2. Implement Crime Control Plan Police
- 3. Maintain implementation of Project Safe Neighborhood Police
- 4. Evaluate an alarm ordinance Police, Fire
- 5. Broker projects to improve housing in selected neighborhoods LM&D
- 6. Provide leadership training for the Jersey City neighborhood LM&D
- 7. Conduct needs assessment to identify additional selected neighborhood(s) LM&D
- Complete Oakdale-Union Hill Cemetery Improvements LM&D, Public Services
- 9. Evaluate Public announcement methods concerning emergency preparedness Fire, Police, Utilities
- 10. Evaluate cost of adding an additional Fire substation City Manager, Finance, Fire
- 11. Evaluate consolidating Fire Department dispatch with Police dispatch Fire, Police, Information Technology

Outcome 2: Expand the tax base and revenue sources

- 1. Prepare systematic annexation plan LM&D, Finance, Utilities
- 2. Publicly support Project Development Financing City Council, Management Team
- 3. Identify and promote properties within the City for future in-fill development LM&D

Outcome 3: Provide quality Parks and Recreation services

- 1. Continue development of Salisbury Community Park and Athletic Complex Parks & Rec
- 2. Develop additional funding sources for the Community Park Parks & Rec
- 3. Continue renovation of existing parks and recreation facilities Parks & Rec
- 4. Complete master plans for individual parks Parks & Rec
- 5. Implement Greenway Construction LM&D, Parks & Rec
- 6. Implement Open Space Standards through Vision 2020 LM&D, Parks & Rec
- 7. Conduct Feasibility Study for Civic/Convention Center City Council, Management Team, Parks & Rec, appointed Task Force

Outcome 4: Improve appearance and function of the Innes Street Corridor

1. Prepare East Innes Street streetscape plan - LM&D

Outcome 5: Implement Salisbury Vision 2020 Plan

- Adopt standards and ordinances that support implementation of Vision 2020 LM&D, Management Team
- Identify opportunities to support Vision 2020 through City operations LM&D, Management Team
- 3. Consider smart growth standards and incentives LM&D, Utilities

Outcome 6: Foster a climate of City-County cooperation

- Support Rowan County's development of a land-use plan with growth corridors LM&D, Utilities
- 2. Conduct periodic City-County meetings with elected officials as needed City Council

Outcome 7: Attract, retain and develop high quality City employees

- 1. Require multiculturalism training for all new employees, and provide training for interested citizens Human Resources
- 2. Implement employee training and development plan Human Resources
- 3. Evaluate "Broad Banding" compensation program for additional departments Human Resources
- 4. Implement strategies to recruit employees from diverse populations Human Resources
- 5. Develop strategies to attract and retain quality employees Human Resources

Outcome 8: Partner with Rowan-Salisbury Schools

1. Meet with School officials to determine needs with which the City can assist - City Council, Management Team

Outcome 9: Improve overall management of City and departments

- 1. Participate in statewide programs to establish performance standards Finance, Management Team
- 2. Develop system of standards to measure performance and accomplishments for all City departments Finance, Management Team
- 3. Monitor accomplishments in achieving stated standards Finance, Management Team
- 4. Create, monitor, and evaluate departmental strategic plans City Manager, Management Team
- 5. Periodically evaluate the status of the City's Outcomes and Goals City Council, City Manager, Management Team
- 6. Continue the City's Goal Setting and Future Directions process City Council, City Manager, Management Team

- 7. Offer American Public Value Leadership training for City Council, Management Team, and other local elected officials and staff City Council, City Manager, Human Resources
- 8. Council to review election methods with the Institute of Government City Council

Outcome 10: Implement special initiatives to improve the quality of life for Salisbury citizens

- Participate in the Regional Environmental Sustainability Project City Council, LM&D, Management Team
- 2. Provide appropriate training for all boards and commissions LM&D, Human Resources, Parks & Rec
- 3. Complete a feasibility study for an educational television access channel Information Tech
- 4. Evaluate the need for a policy for the development of affordable housing in Salisbury LM&D, Utilities

Outcome 11: Improve and enhance Downtown Salisbury

- 1. Partner with DSI to implement the Downtown Salisbury Master Plan LM&D
- 2. Implement recommendations of DSI Parking Committee LM&D, Public Services
- 3. Conduct a downtown ADA compliance audit LM&D, Human Resources, Public Services

Outcome 12: Streamline development review process and ordinances

- 1. Continue development of project tracking software Utilities, LM&D, Information Technology
- 2. Establish "one stop permitting" LM&D, Utilities
- 3. Review construction standards LM&D, Utilities
- 4. Seek local permitting authority for utility extensions Utilities, LM&D
- 5. Salisbury-Rowan Utilities to update and enforce existing State-mandated plans and programs (necessary to achieve local permit authority) Utilities, LM&D

Outcome 13: Provide quality water and wastewater services to Rowan County that protect the environment, promote public health, improve the quality of life, support planned growth, and maintain public trust

- 1. Operations Utilize resources to effectively and efficiently maintain and operate existing and future equipment, infrastructure, and processes, while providing superior quality water and wastewater services and protecting public health and the environment Utilities, Finance
- 2. Rates/Revenue Manage the utilities in a manner that optimizes the utilization of resources and enables Salisbury-Rowan Utilities to charge competitive and affordable rates, while providing for capital and operational needs Utilities, Finance
- 3. Customer Service Provide accessible and responsive services and address customer needs efficiently and accurately Utilities, Finance

- 4. Human Resources Attract, retain, and reward a team of qualified employees committed to the Salisbury-Rowan Utilities' mission Utilities, Human Resources
- 5. Stakeholder Communications Be proactive in providing information, education, and public communication services Utilities
- 6. Planning and Community-Wide Development Operate Salisbury-Rowan Utilities according to well-defined plans supportive of the strategic plans of client communities Utilities

Outcome 14: Create a positive business climate in Salisbury and Rowan County

- 1. Explore the feasibility of creating a business incubator for Salisbury LM&D, Management Team, selected Development Organizations
- 2. Evaluate the need and options for business and development incentives Utilities, LM&D, Management Team, selected Development Organizations
- 3. Serve as a catalyst to develop a consolidated strategic business initiative for Rowan County City Council, Management Team, LM&D, Rowan County, selected Development Organizations
- 4. Evaluate City-County consolidation of the development review process City Council, City Manager, LM&D, Utilities, Rowan County
- 5. Investigate entrepreneurial loan pool and funding options City Manager, LM&D, selected Development Organizations, Financial Institutions
- 6. Downtown Salisbury to take inventory of types of businesses that are of interest to young people and make recommendation Downtown Salisbury
- 7. Foster a customer service attitude among all City workers City Manager, Finance, Management Team
- 8. Establish a downtown Farmers Market City Council, LM&D, City Manager, Public Services, Downtown Salisbury, NC Cooperative Extension

Vision			Schedule (Victory	Priority and		
Component, Project Description, and Cost Estimate	Launch Activity	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to Council-level Outcomes
Collect, maintain	, and display dat	ra					
1 - Implement Addresser Program	Meet with Rowan County to identify	· Review addressing and	• Purchase, install and test <i>Addresser</i>			Successful implementation of	High
\$5,000 - 10,000	and agree upon addressing service areas	street centerline data schema and field match to schema used by The Addresser	extension for ArcGIS Develop automated model for extracting data and sharing with county Use improved address data for 2010 Census update			Addresser extension for all editors of address and street center- line data	1
2 - Map all remaining fire hydrants county-wide In-house	Meet with Rowan County to review existing data	 Review hydrants data schema and compare with that of SRU Contact neighboring 	 Provide field assistance in collecting data 			Successful collection of remaining hydrants in Rowan County	High 11
3 - Develop a storm-	Conduct meeting	jurisdictions for data availability • Hire additional	Data collection	· Data collection	• Data collection	Storm-water	High
water system map	with LMD, Public Services, and SRU	data collectors (interns)	completed for 30 percent of area	completed for 50 percent of area	completed for 70 percent of area	system infrastructure is	(state mandate)
In-house	staff to identify data layers needed for comprehensive storm-water system map	Begin data collection (10 percent of area)	percent of area	percent of dred	percent of area	mapped and available to all departments and is ready to enter maintenance cycle	(State manuale)
4 - Purchase oblique	Conduct meeting with Fire, Police and			 Contract to have oblique imagery 		Oblique imagery available to all	High
aerial photography to integrate into current applications	other interested staff to identify coverage area			flown		departments and is ready to enter maintenance cycle	1 and 2
\$50,000	desired for oblique imagery						

Vision			Schedule o	Victory	Priority and		
Component,	Launch					Complete	Relationship to
Project	Activity	FY 06-07	FY 07-08	FY 08-09	FY 09-10		Council-level
Description, and							Outcomes
Cost Estimate							

Utilize data analysis/modeling to make better decisions

5 - Participate in	Conduct meeting		· Geocode digital	High
census address	with LMD staff		address files from	
review	regarding response		US Census	1
	to 2010 Census		· Identify valid	
In-house			addresses that city	
			does not have	
			recorded	
			· Identify valid	
			addresses that	
			Census does not	
			have recorded	
			• Update city	
			address data layer	
			· Submit findings to	
			census	
6 - Standardize	Conduct meeting	• Review	• Review current Successful o	ıpdate High
addresses county-	with Rowan County	addressing and	routing information of routing	
wide with input from	E-911 and other	street centerline	to ensure it is information	for 1
city/county /911;	stakeholders	data schema and	correct street center	erline
create routing layer		field match	· Complete routing that is share	ed
county-wide			information among all	
			stakeholder	s
In-house				
7 - Incident mapping	Conduct meeting	 Identify data 	· Create models to Successful a	reation High
(i.e., crime mapping)	with LMD and Police	currently	auto-generate data of traffic ac	
	to review incident	available in police	layers regularly data layer a	nd 2
In-house	mapping needs	RMS that is	based on other data l	ayers as
		needed for	extractions of data identified by	/
		analysis by LMD	from police system meetings co	nducted

Vision			Schedule (of Activities		Victory	Priority and
Component, Project Description, and Cost Estimate	Launch Activity	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to Council-level Outcomes
8 - Develop a county-	Meet with LMD.		• Identify areas	· Identify major		Completed water	High
wide water and	SRU, Rowan County		within Rowan County	trunk lines for		and sewer service	riigit
sewer service plan	planning staff, and		that are expected	water and sewer		master plan	11
Server Service plan	other stakeholders		to be built out over	services		mas or prair	
In-house	to determine scope		next 20-50 years				
	of work and process		•				
9 – Use network	Conduct meeting			 Purchase, install, 	 Evaluate use of 	Successful	High
analysis for improved	with Public Services			and configure	RouteSmart for	implementation of	
routing for public	to review routing			R <i>outeSmart</i>	transit routing	RouteSmart and	1 and 2
services	needs			 Define routes for 		more efficient	
h				garbage and		collection of	
\$100,000				recycling		garbage and	
				collection, street		recycling, street	
				sweeping, and utility meter		sweeping and utility meter collection	
				reading		METEL COHECTION	

Provide necessary resources

10 - Wireless access city-wide	Meet with IT staff and other	 Make existing wireless access 	Support additional funding of wireless	Wireless access is available city-wide	High
,	stakeholders	points • Identify priority areas not	access points through IT	and all departments able to use it	1 an 3
11 - Support fire	Meet with Fire	presently served • Identify	Complete identified	Fire department	High
accreditation and	staff	incomplete data	data layers	maintains current	riigit
standardization of coverage		layers needed for accreditation	 Provide technical support for data 	accreditation and identifies future	1 and 2
In-house			analysis	resources needed in order to provide	
				excellent service	

Vision			Schedule d	Victory	Priority and		
Component, Project Description, and Cost Estimate	Launch Activity	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to Council-level Outcomes
12 - Develop on-line	Meet with LMD.	• Identify data	• Develop on-line	· Conduct follow-up		Public, on-line	High
application to	SRU, Rowan EDC,	layers required	application	meeting with		application that	riigit
highlight economic	and other	and organization	· Test on-line	stakeholders		highlights areas	3
development areas	stakeholders	of on-line	application	 Identify 		available for	
and urban progress		application	 Present completed 	additional data		economic	
zone		 Fully document 	project to city	layers required		development	
		requirements and	council	and/or other		economic	
In-house		get go-ahead	• Prepare materials	functional		development comes	
		from stakeholders	about on-line	requirements • Update on-line		to Salisbury as a result	
		Stakeholders	application for Access16 and other	application, as		resun	
			advertising spots	needed			

Implement GIS-based work order system

13 - Automatic notification to	Meet with GIS data editors and other	· Identify instances which	• Identify additional instances which	 Identify additional 	 Identify additional 	GIS editors notified each time	High
perform map updates within workflow	stakeholders	could trigger map changes • Build trigger into	could trigger map changes as work order system is	instances which could trigger map changes as work	instances which could trigger map changes as work	feature (out in the field) is added, removed, or	1
Included in original work-order cost		work order system that notifies appropriate GIS data editor(s)	implemented throughout city	order system is implemented throughout city	order system is implemented throughout city	changed and requires modification in GIS	
14 - Mobile access required	Meet with GIS users and other	 Identify users of work order 	 Update ArcGIS software to support 			Users of work order system and	High
Included in original work-order cost	stakeholders	system who need mobile access	mobile access			GIS are able to perform all tasks on mobile data terminals	1

Vision			Schedule d	Victory	Priority and		
Component, Project Description, and Cost Estimate	Launch Activity	FY 06-07	FY 07-08	FY 08-09	FY 09-10	Complete	Relationship to Council-level Outcomes
15 - Produce end-of-	Meet with GIS	· Identify city	· Identify work order	· Identify work	· Identify work	City staff are able	High
year reports for performance measurement Included in original work-order cost	users and other stakeholders	staff who prepare end of year reports for performance measurement	system processes that feed end of year reports • Ensure collection of all necessary data for end-of-year reports	order system processes that feed end-of-year reports as work order system is implemented throughout city	order system processes that feed end-of-year reports as work order system is implemented throughout city	to easily prepare end-of-year performance reports from work order system and additional performance reports at any time throughout the year	1
16 - Pull up history of activity for	Meet with GIS users and other	 Identify means by which GIS 	 Provide input and feedback on 	 Provide input and feedback on 	 Provide input and feedback on 	Users of work order system and	High
address/parcel Included in original work-order cost	stakeholders	users and other stakeholders need to pull up history from work order system	retrieval of historic information from work order system	retrieval of historic information from work order system	retrieval of historic information from work order system	GIS are able to pull up history of activity for address, parcel, or defined area from either the map or the database	1
17 - Start work order with either map or database - both equal Included in original work-order cost	Meet with GIS users and other stakeholders	Receive letter of commitment from Cogsdale and ESRI Canada that bidirectional communication will be implemented with work order system	• Provide input and feedback on integration of work order system with GIS	 Provide input and feedback on integration of work order system with GIS 	 Provide input and feedback on integration of work order system with GIS 	Users of work order system and GIS are able to initiate work orders from either the map or from the database - and both are easy to perform	High 1

Appendix D - FY 2006-07 Outcomes and Goals

City of Salisbury

City Council Outcomes and Goals, FY 2006-07

(Revised on February 10, 2006 and Adopted March 21, 2006)

Outcome 1: Create a culture of excellent customer service within the city organization

1. Develop and implement a comprehensive customer service plan within the city organization - Human Resources

Outcome 2: Improve neighborhoods and safety for all areas of the city

- 1. Evaluate and implement an alarm ordinance Police, Fire
- 2. Implement the Jersey City neighborhood plan LM&D
- 3. Identify and initiate an impact project as part of the North Main Street Small Area Plan LM&D, Public Services, Parks & Recreation

Outcome 3: Establish a creative enterprise economy with the best educated workforce, the most competitive infrastructure, an environment for creativity and innovation, a positive business climate, and supportive government in Salisbury and Rowan County

- 1. Prepare and implement a fiber-to-the-home business plan Technology Services
- 2. Establish a unified community image which exemplifies our communities' cultural, educational, historic, environmental, entrepreneurial, and arts attributes LM&D. Public Services
- 3. Partner with Rowan County Chamber of Commerce and Downtown Salisbury, Inc. to conduct focus groups to gather input on the quality of life amenities that are important to young professionals who work in Salisbury and Rowan County City of Salisbury, Chamber of Commerce, Downtown Salisbury, Inc., Administration, Human Resources
- 4. Implement the Business Incubator Plan as part of an overall economic development strategy for Salisbury and Rowan County LM&D, CDC
- 5. Investigate entrepreneurial loan pool and funding options City Manager, LM&D, selected Development Organizations, Financial Institutions
- 6. Participate with Rowan County in the development and implementation of a unified incentive plan to attract industry and business to Salisbury and Rowan County Management Services, Administration
- 7. Support Rowan County in the promotion and development of the Rowan County airport City Council, Administration
- 8. Explore the creation of an airport development zone City Council, Administration
- 9. Partner with Rowan Jobs Initiative LM&D, EDC, Committee of 100

Outcome 4: Provide quality parks and recreation services

1. Complete master plans for individual parks - Parks & Rec

Appendix D - FY 2006-07 Outcomes and Goals

Outcome 5: Implement Salisbury Vision 2020 Plan

- 1. Consider adoption of the City of Salisbury Land Development Ordinance City Council
- 2. Prepare East Innes Street streetscape plan LM&D

Outcome 6: Attract, retain and develop high quality city employees

- 1. Implement strategies to recruit employees from diverse populations Management Team, Human Resources
- 2. Develop strategies to attract and retain quality employees Human Resources
- 3. Implement employee training and development plan Human Resources

Outcome 7: Partner with Rowan-Salisbury Schools

1. Meet with school officials to determine needs with which the city can assist - City Council, Management Team

Outcome 8: Improve overall strategic management of City and departments

1. Incorporate the *Good to Great* concepts into the city's culture as a foundation for Salisbury becoming a *high performance organization* including the successful completion of all strategic plans - City Manager, Management Team, Human Resources, City Employees

Outcome 9: Improve and enhance Downtown Salisbury

- 1. Implement the Downtown Salisbury Master Plan LM&D
- 2. Conduct a downtown ADA compliance audit LM&D, Human Resources, Public Services

Outcome 10: Streamline development review process and ordinances

- 1. Review construction standards LM&D, Utilities
- 2. Seek local permitting authority for utility extensions Utilities, LM&D
- 3. Salisbury-Rowan Utilities to update and enforce existing state-mandated plans and programs (necessary to achieve local permit authority) Utilities, LM&D
- 4. Develop a communication plan for sharing development processes and ordinances with stakeholders City Council, City Manager, LM&D, Utilities

Outcome 11: Provide quality water and wastewater services to Rowan County that protect the environment, promote public health, improve the quality of life, support planned growth, and maintain public trust

- 1. Partner with Rowan County to implement the Town Creek/I-85 growth corridor interceptor sewer extension project Utilities
- 2. Safeguard Salisbury's interests on the Yadkin River by participating in Federal Energy Regulatory Commission (FERC) re-licensing of Alcoa's Yadkin

Appendix D - FY 2006-07 Outcomes and Goals

Project - Utilities, City Council, Administration

- 3. Obtain renewal of the City of Salisbury's National Pollutant Discharge Elimination System (NPDES) discharge permit Utilities
- 4. Fund, design, construct, and complete first phase of Wastewater Facilities Capital Improvements Project Utilities

Notes

(For more information ... visit gis.salisburync.gov)

Project Management
Strategic Planning · Neighborhood Planning
Future Search · Visioning
Mission Statement · Board Facilitation
Needs Assessment · Planning Studies
Citizen Planner Training · Permit Tracking
Group Facilitation Training



Garry V. Cooper Associates

Dr. Garry V. Cooper, AICP 127 Sports Club Lane, #132 Boone, NC 28607

Telephone: 828.262,7051 (work) • 828.264.0708 (home) Fax: 828.262.3067 E-mail: garry@cooperwww.com www.cooperwww.com